

NAG Library Routine Document

X07BAF

Note: before using this routine, please read the Users' Note for your implementation to check the interpretation of *bold italicised* terms and other implementation-dependent details.

1 Purpose

X07BAF creates a signed infinite value.

2 Specification

```
SUBROUTINE X07BAF (ISIGN, X)
INTEGER          ISIGN
REAL (KIND=nag_wp) X
```

3 Description

X07BAF sets X to be positive or negative infinity.

4 References

IEEE (2008) *Standard for Floating-Point Arithmetic IEEE Standard 754-2008* IEEE, New York.

5 Arguments

- 1: ISIGN – INTEGER *Input*
On entry: determines the sign of the infinity to be created.
If ISIGN is greater than or equal to 0, a positive infinity is returned, otherwise a negative infinity is returned.
- 2: X – REAL (KIND=nag_wp) *Output*
On exit: the required infinite value.

6 Error Indicators and Warnings

None.

7 Accuracy

Not applicable.

8 Parallelism and Performance

X07BAF is not threaded in any implementation.

9 Further Comments

None.

10 Example

See Section 10 in X07AAF.
